



Docket No. 1460.1007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of:

Takeshi HOSHIDA et al.

Serial No. 09/635,431

Group Art Unit: 3662

Filed: August 10, 2000

Examiner: S. Cunningham

For: OPTICAL AMPLIFYING APPARATUS FOR AMPLIFYING WIDE-WAVELENGTH-BAND LIGHT, OPTICAL SENDING APPARATUS, OPTICAL TRANSMISSION SYSTEM, AND OPTICAL AMPLIFYING METHOD

AMENDMENT

RECEIVED

DEC 28 2001

GROUP 3600

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

This is in response to the Office Action mailed September 21, 2001, and having a period for response set to expire on December 21, 2001.

The following amendments and remarks are respectfully submitted. Reconsideration of the claims is respectfully requested.

**IN THE DRAWINGS:**

Pursuant to the enclosed separate Letter to the Examiner Requesting Approval of Drawing Changes, amendments to Figures 11 and 14 are respectfully requested.

**IN THE SPECIFICATION:**

Please AMEND the paragraph beginning at page 42, line 9, as follows:

A first WDM optical signal separated by the coupler 63 is input to a PD 64 via a fiber grating filter (hereinafter abbreviated as FBG) 76 that is a band-pass filter. The PD 64 performs photoelectric conversion on the first WDM optical signal. The central wavelength (central frequency) of the pass-band of the FBG 76 is so set that that the FBG 76 passes only light of channel-s of the S<sup>+</sup>-band WDM optical signal, that is, light of the longest-wavelength channel in the S<sup>+</sup> band. Therefore, a current value obtained by the PD 64 through photoelectric conversion corresponds to the optical power of the longest-wavelength channel in the S<sup>+</sup>band. The PD 64 outputs the current to an operation unit 68.

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